STITUTION OF THE SUN. A large audience assembled in the hall of the Cooper Institute last evening, to listen to Dr. B. A. Gould of Cambridge, Mass., who lectured before the American Institute, on the "Constitution of the Sun." The lecture was profusely illustrated by photographs of the sun, rewith the aid of a lantern upon a background of white cloth. One of the photographs, showing spots and faculæ, was taken yesterday afternoon by Mr. Lewis M. Ratherford, at his observatory, and was pronounced by Dr. Gould an excellent one. The lecturer was introduced by Prof. Tillman, who announced that the last lecture of the course will be delivered on Friday evening next, by Prof. J. S. Newberry of Columbia College. Subject: "The Colerado Plateau-Its Cañons and Ruined Cities." Dr. Gould, upon coming forward, was greeted with ap-

LADIES AND GENTLEMEN: It would be a valu task to attempt any investigation of the history of our early astronomical knowledge of the sun. Hero-dotus relates that Thales of Miletus predicted the total eclipse, which occurred in the year 584 B. C., during the sixth day of a battle between the Medes and Lydians, and which by its awe-inspiring influence brought their five-years' war to a close. We know, too, that Pythagoras and his immediate pupils taught the doctrine, which he probably learned in Egypt, where he had studied, that the sun is the center of the universe, and that the earth revolves around him once a year. Three and a half centuries later, Archimedes cor-

a problem of peculiar importance, inasmuch as it is the unit in which, by means of Keppler's laws, all the planetary distances are measured. Consequently all our knowledge of celestial distances (excepting only that of the moon) is closely connected with the value of this fundamental standard of measures; and any addition to our knowledge, which shows any one adopted distance to be urveyors for detecting terrestrial hights and dismeasuring; the parallax—i. e., the difference of
in which the same object appears from different
view. Mars and Venus, as being the nearest to
offer the greatest advantages for determining
and many observations have therefore
and many observations have therefore
eight points, distant from each other on
a surface. The base line between them being
or and the difference in direction in which the
pears to the observers being carefully noted, it
bossible to commute the length of the other sides

estion has regard to its weight, or mass, as it is called,

from its conter, it is easily seen that the weight of any object at the surface of the sun must be 27.0 times as great as the weight of the same object upon the earth. Anything let drop near the surface of the earth will fall about 16 feet during the first second, but near the sun's surface, it will fall more than 445 feet during the first second; at the end of the next, it would have acquired a velocity equal to that of a camon ball as it leaves the most powerful gun; and even if let fall at the hight of two lakes. It would traverse this distance in less than the seconds.

two talks, it would traverse this distance in less than the messes. It was once thought that an exterior shell, surrounding the true body of the sun, was the source of his light and heat, and that within this shell was a comparatively ecol, dark body, which slight possibly be inhabited by beings not very unlike curselves. Now that we know the case to be otherwise, and that the interior of the sun must be at a temperature surpassing that of the flercest fires which can be produced by human art, the question of habitability lesses its significance, except perhaps from a theological point of view.

But a consideration which might well have been borne in mind, is the vastly greater weight which all objects at the sun neut exhibit by reason of the attraction of his immense mass. A man of ordinary size would there weigh hearly 5,000 pounds, and although we may hardly indorse the younger Herschel's statement "that he would be crushed as flat as a pancake by his own weight," we must concede that it would be a somewhat fatiguing exercise for him to run up and down stairs very often, and that the sun's surface would be rather a hard road to travel.

The sources of the light and heat of the sun-the only two of his marvelous properties apparent to the ordinary observer-are problems of the greatest difficulty. I will only say here that the most vivid light developed by human art, when interposed between the eye and the sun, appears like a black spot upon the solar disk. The highest temperature yet produced by man is that evolved highest temperature yet produced by man is that evolved
by the combustion of charcon in oxygen, which Bunsen
estimates at 10,000 °C, or 18,000 °F; and this is about fivesevenths of the lowest reasonable estimate for the temperature of the solar surface. Coal burning at the rate
of 1 is to the square foot in about 2 seconds would attain
this temperature, and Rankine has estimated that in the
furnaces of powerful locomotive engines, a pound of
coal to each square foot of grate surface is consumed in
from 30 to 60 seconds, yielding a heat from 1-15 to 1-15 as
lutenes as that at the surface of the sun.
Adopting this estimate that a heat equal to that ensitted
by the sun might be attained by the combustion of coal

Adopting this estimate that a heat equal to that emitted by the sun might be attained by the combustion of coal at this rate of one half pound per second to the square foot, it is easy to find how jong the whole mass of the sun would hast, were it composed of coal burning at that rate, and furnished moreover with an unlimited supply of caygen to support the combustion. Performing the calculation, we find that the entire sun would be consumed in a little more than 4,000 years, that is within a period no longer than over which human hastory extends.

And now, what is this sun of ours—this center round which eight large planets, with not less than 18 satellites and 100 small planets, are knewn to recover, beside comets unnumbered and countless swarms of meteors; this luminary, whose fervent and dazzing beams radiate and have radiated for ages with a profusion which has shown no signs of failing, although the most vehement combustion fails to equal it is heat, and the most fatence combustion fails to equal it is leaf, and the most fatence combustion fails to equal it is leaf, and the most fatence combustion fails to equal it as feat and weapt use size to any extent which man skill has sufficed to detect. And does the realm of nature show any other observed computations; the questions which force themselves on our consideration. questions which force themselves on our con-

a sentirely composed of these glowing particles or grain they can scarcely be less than 760 miles in length, floating in a sea of darker though business fluid matter. The brighter and the darker mettlings of the ordinary surface, and the darker of the penumbra, most alike be referred to the intensic splendor of individual granules, distributed in various, ways, arranged more or less compactly and at different degrees of atomic general the fluid medium which supports them. Lockyer, a young English astronomer, who has done much to advance our knowledge of the constitution of the san, says that he has seen the granules in the penumbra change their axial directions, and others, visible against the nucleus as a background, gradually to melt away. Chacomae says, moreover, that the granules, or crystals as he calls them, may be seen dissolving away like crystals of sugar before a jet of seam, becoming apolical over with dask points before they fluidly disappear.

DININUTION OF THE SUS'S FORCE. ble with it in inagilitude of in characters. These has almost the questions.

The sun is a star, apparently not unlike the most of those which gem the sky by night. This occurs a better statement than to say that the stars are suns although it would be difficult to give a good definition for either word. Our idea of a sun seems to imply that it is a center for a system of planets or satellites, dependent upon it for their ight and radiant heat. There is one ground for behaving this to be the case with some of the fixed stars, but for supposing it to be so with most of their bank is a star, one of the same great computy which spangle the firmament, and indeed one of the suns is a star, one of the same great computy which spangle the firmament, and indeed one of the milky way, seems a well-established fact. Hore, as with them, that same law of gravitation holds nurestricted sway which the double stars reveal to us as the guide and controller of their motions. Like many of them it is variable in its light, although only to a small extent to verify a propose of the same great computed by which astronomers have not yet succeeded in recogniting. Its amount motion has been computed by Otto birave to be 100,000,000 miles.

And notwithstanding its awful magnitude, we nount shill recard the sun as a comparatively small star, lat least as not above the average size. This is proved by some parallely of the propose have been above the average size. This is proved by some powerful attraction, or some careful observations made in less than the same as a comparatively small star, lat least as not above the average size. This is proved by some powerful stituted to the same as a comparatively small star, lat least as not above the average size. This is proved by some powerful stituted to the same as a comparatively small star, lat least as not above the average size. This is proved by some powerful stitute of the same as a comparatively small star, lat least as not above the average size. This is proved by some powerful attracti

whose distance can be computed, and can therefore be compared with that of the sun.

When we view the sun through a telescope of moderate power, provided with a deep sinde class, or with a solar eye-piece, we see a bright disk, in which no measurement has yet detected any variation from a perfect circle. This circle is not of equal brightness, the central portion being much more brilliant than the parts near the efficience. Nor is the solar brightness equable in other respects, but the whole surface appears mottled by small variations in brilliancy, which have been compared to the irregularities upon the rind of an orange, and to the uneven surface of a stormy sea.

SPOTS ON THE SUN. SPOTS ON THE SUN.
Usually, too, several spots, or groups of spots of ir

sini suggested, in 1671, that the sun's surface must be an ocean of light, surrounding the dark and solid central

If, therefore, the appearances be as stated by Wilson, the inference seems irresistible that the spots are openings in the clowing envelope of the sun. To make sure of the facts in the case, the Directors of the Kew Observatory have carried out an extensive examination of all the drawings and photographs of solar spots, which they could make available, and the enormous preponderance of observations in favor of this theory must be considered as definitely settling the question. Mr. De La Rue also suggested the use of the stereoscope to decide whether the spots are actually cavifies or depressions, with the same result. But this argument, although a strong one can hardly be deemed conclusive, for our senses are

the spots are actually cavifies or depressions, with the same result. But this argument, although a strong one, can hardly be deemed conclusive, for our senses are tricky guides, and things are not always what they seem.

But why should the sleping sides of such a cavity manifest that diplination of the solar luster which the penumbra exhibits? Because the darker body of the sun would be partially seen through it, would be our first reply; but a moment's thought will show that were this the true explanation, the penumbra would a skibit different degrees of luminesity, and shade gradinally away from full brightness at its circumference to darkness at its inner margin. This is not the appearance, but the boundaries of the penumbra are sharply defined and its color is tolerably uniform throughout. To meet this difficulty the German astronomer Bode, assumed a second envelope of a cloudy nature, supported by an atmosphere, and situated between the true body of the sun and the atmosphere, as the outer light-giving envelope is called. The reflection of the photosphere from this surface would account for all the light of the penumbra, while the nucleus of the spot would be the body of the sun as seen through the opening in this second envelope. Twenty years a lare, the great William Herschel added the idea that the transparent, classic atmosphere in which the stratum of clouds must be suspended at a hight of not less than 4,000 miles, likewise

sity, nearly 2,500 times greater than that of the full moon. A curious and frequent appearance is that of so-called bridges, which often cross a spot, dividing it like partitions. Sometimes these are intensely brilliant, crossing penumbra as well as nucleus, while in other cases they

penumbra as well as nucleus, while in other cases they are no brighter than the penumbra, and only perceptible when in cortrast with the dark nucleus. Both their formation and disappearance have been frequently observed; tongues of light are seen darting across from one side, or from both sides toward each other, until the bridge is established, and in a way not make that which naturalists describe when increasepie organic forms are in process of development; and again they are seen to fade gradually away, growing fainter and fainter, until from an intense brightness they have seemed to dissolve and disappear. These also are depicted in the diagrams.

About the year 1603 Mr. Nasmyth amounced the dis-

About the year 1863 Mr. Nasmyth announced the dis-

covery that with a powerful telescope of sharp defluing

power, and under favorable atmospheric conditions, the

whole luminous surface of the sun appeared to con-

whole luminous surface of the sun appeared to consist of a thin layer of bright filaments shaped like willow leaves, averaging about 1,000 miles in length and 100 m breadth; that these lay scattered over the sun generally in every variety of direction, neross each other, and that the black points were simply the interatives between these whow leaf filaments. This announcement stimulated at once to very minute scrattny of the face of the

regular and often fantastic shape, are to be seen variously distributed, but almost always within a belt crossing the sun centrally, and not so wide as one-half his diameter. These spots differ in size from the smallest visible tor. These spots differ in size from the smallest visible one to a breadth of 1', which is 1-16 of the diameter of the sun, and corresponds to seven times that of the earth; and a short period of examination suffices to show that their forms and dimensions are undergoing continual and rapid changes. Ordinarily, and, indeed, always, if of any considerable magnitude, they consist of two distinct parts, each sharply defined, viz.: a dark inner portion called the umbra or nucleus, and an extensive grayish border, much brighter than the nucleus, and called the penumbra. Sometimes, though not often, the sun is seen entirely free from spots, while at other times they are extremely numerous, more than 50 having been seen at one time. Not unfrequently they are visible to the naked eye through a smoked glass.

Finally, yet another appearance presents itself to the observer with a telescope of moderate power, viz.; patches or streaks of light more brilliant than the rest, and not to be confounded with the general mottling of the surface. These are called facular, and are generally, but not always, of an elongated form, and chiefly manifest in regions near the limb or margin of the sun, where the fainter light, and some other causes, render them especially conspleuous. Faculæ may almost always be seen in the close vicinity of the spots, and generally to the left of them; but they are not restricted to these situations, and may be found in regions where spots are never seen.

Is 1. 276 257 0

In 1852, nine years after Schwabe's discovery, Prof Wolf of Berne, was led by careful study of the observations in connection with ancient records to a modification in the length of the period, which is now fixed at about 11-19 years. He also succeeded in proving that this period answered also to the variations in terrestrial mag times discloses some mountain summit which appears as the black nucleus of the spot. This suggestive idea the black nucleus of the spot. This suggestive idea formed, however, only a first step toward the solution of the problem, the honor of which belongs to a Scotch astronomer. Prof. Alex. Wilson of Glascow, 169 years later. Wilson observed that the penumbra or grayish border which surrounds the dark nucleus, and which is generally of about equal width on all sides when the spot is near the middle of the sun's disc, always became narrower on the side nearest the middle of the sun, when the spot approached the circumference. Hence he inferred in 1773 that the spots were funnel-shaped apertures in the luminous envelope, which disclosed the dark body of the sun at the bottem, and whose shelving sides constituted the penumbra. A moment's inspection of the diagram will show how such an aperture would at the middle of the disc exhibit the full size of the nucleus, D.E., and an equable border, represented by the apparent breadth at C.D. and E.F. of the inclined sides of the opening; but that when it is nearer the circumference, as at A.B. or G.H., the nearest vide becomes foreshortened, as does also the nucleus, though to a less extent, while the farthest side of the apprure is presented much more fully to the view.

If therefore, the apprurances he as stated by Wilsen.

In addition to the study of the quantity and intensity of light, two modes of investigating its quality are known to us. One is by discovering in what planes the luminous undulations occur, the other is by determining the proportion of rays each degree of refrangibility which it contains. By the first method, viz: by the use of the polariscope, we are generally enabled to discover if light reaching us has been reflected, or directly emitted by the luminous body, and if that body is solid, liquid, or gaseous. By the second, viz: by the use of the spectroscope, we are enabled to analyze each ray of solar light, and to infer from what incandescent chemical elements it comes, at what temperature it has been emitted, and through what forms of vapor it has passed. Few subjects are more fascinating than these, but I may not stop to set forth the processes involved, or to speak of the still active progress of discovery in those directions.

Thus far, ladies and gentlemen, I have endeavored to give you a sketch of the principal facts which have been discovered concerning the sun. Before asking you to give a very few moments' attention to a summary of the best received theories to account for the origin of his light and heat, and the probable length of time during which they have already existed and will continue to exist, I will say a few words on celipses, and show you upon the screw various representations of them.

direct ray of the sun has been cut off by the advancing moon is this round orb in almost inky blackness against a luminous background, and the whole surrounded by a bright glory, which has received the name of the gorona, or crown. This appears to have been seen in all total celipses, for even ancient Greek authors mention it; yet the descriptions and representations of it vary in a remarkable degree. In some of the drawings it is depicted as a bright halo, concentric with the black disc of the moon, and of nearly uniform width; in some it is a giory of radiant beams; in others some of the beams are twee or three times the length of the rest; sometimes there are four, sometimes two, sometimes its such projecting beams of light. Injudging of the degree of accuracy in these, there are many considerations to be kept in mind, such as—that the corona has only lately been made the subject of special observation; that the observations have generally been made through telescopes which magnified too much to allow the whole disc of the sun and moon to be seen at once; and that the sketches have almost always been made from memory at some subsequent time. I will show some of the representations which have been published, that you may more fully appreents the diversity of forms, assigned to the corona by different observers. a luminous background, and the whole surrounded by

THE " CHROMOSPHERE," you have probably observed another strange appearance, which is never absent though often vailed from the naked eye by the brilliancy of its background of luminous position have since that time been the objects of continual investigation by numerous observers. It has been satisfactorily established that the light which it sends us is chiefly due to incandescent hydrogen, and usually contains indications of the presence of sodium, barium, magnesium, iron, and perhaps other metallic elements.

MECHANICAL ORIGIN OF THE SUN'S LIGHT AND HEAT. I will exhibit finally two photographs of the celipse of last August, one by the Nautical Almanac party, with short exposure, and exhibiting but little coronal radiance, and one by the Coast Survey party with much longer exshort exposure, and exhibiting but little coronal radiance, and one by the Coast Survey party with much longer exposure, and showing a very considerable glory round the some On this occasion I gave my own particular attention to the form of the corona, and the directions of pagminent beams, and devoted a large share of the three refinutes to measuring its dimensions and sketching its outline. Here are three drawings of its appearance at intervals of a minute, and I think they establish the fact that for the same observers, and at the same place, its aspect is undergoing continual variation. The facts being now manifest that the forces radiating from the san cairet be due to commission, insummen as this would be inadequate to afford the supply; and yet, that they must be in process of continual development from sources in which it previously existed in some other forms than as heat and light, since some amount of cooling and fading would other rise inevitably be within the range of our detective powers, there remains but one explanation open to me sout of all those which science can at present suggest. This is that the light and heat are the results of mechanical action, and that forces which were previously engaged in producing motion, are by the arrest of that motion, made to appear in this new form, just as from grows hot under the blows of a hammer, or an axis takes fire in consequence of friction. From this inference there are no consequence of friction. From this inference there are no consequence of the sur from a previous momentum adequate to produce it.

Dr. Gould then gave an account of the meteoric theory of solar fluct, and showed the objections which could reasonably be urged against it, and then proceeded to explain the theory of contraction, to which he gave he correlates the directions which could reasonably be urged against it, and then proceeded to explain the theory of contraction, to which he gave he correlates, to which the sun is a gaseous mass at a high temperature, the outer circumferenc these willow leaf filaments. This announcement stimulated at once to very minute scratiny of the face of the sen, and to an active controversy among the observers. All agreed that the luminous surface was composed of bright particles, but Nasmyth's description found but little contribution. One observer proposed the term ricegrains, as better representing the form of the objects in question, and another compared them to gravel on the beach, and a third preferred the word granulations. The facts established have been very clearly set forth by Mr. Huggins of London. The granules are of various sizes, but may on the average be roughly taken as about 1½" in length, and 1' in breadth, corresponding to about 67 by 450 miles. Some are nearly round, others eval, and others still almost without symmetry of outline. The coarser motifing of the solar disc sixes chiefly from the ulternation of lines or groups of closely aggregated granules and of regions in which they are less abundant. The points are the interatices between them, as they appear through a telescope of insufficient power. Mr. Huggins sums approach in the fact of the word for the solar discussion of the solar fact of the solar discussed incandescent clouds; that they slowly suck, merge into each other, become less and less luminous, and gradually dissipate into comparatively non-luminous gas. The dark pores would then be represented by the performs where complete vaporization had taken place." He also gives an interesting diagram, which is here repreduced in a drawing by Prof. Morton to show the distribution of the bright granules on those parts of the san which are free from spote, in some of the most characteristic forms of their grouping. Thus it seems established that the luminous surface of the san in entirely composed of these shows parties or granules, almost as small as we can see, netwithstanding that they can scarcely be less than 20 miles in length, foat-they can scarcely be less than 20 miles and matter. The

THE AMERICAN INSTITUTE OFFICERS.

At the election for officers of the American Institute, on Thursday evening, two tickets were sub-mitted to the members. One of these was printed in THE TRIBUNE yesterday, but as the list contained many inaccuracies, the following corrected and regularly chosen ticket is published:

President-Horace Greeley. Vice-Presidents-Gen. Wm. Hall, Charles P. Daly, the

Vice-Presidents—Gen. Wm. Hall, Charles P. Daly, the Hen. N. C. Ely.
Recording Secretary—George Peyton.
Corresponding Secretary—Samuel D. Tilman.
Treasurer—Sylvester R. Comstock.
Managers of the Fulr—William H. Butler, Orestes
Cleveland, J. Groshen Herriot, Charles Wager Hall, Wm.
S. Carpenter, George Timpson, J. Wilson Stratton, James
Knight, Thomas Hiels, Thomas Rutter, Samuel R. Wells,
Wm. E. Pearse, Joseph B. Lynam, J. Trumbuil Smith,
Walter Shriner, Thomas D. Stetsen, James R. Smith, E. S.
Dickinson, Charles H. Clayton, Henry J. Newton, Chae.
Reome, Occar A. Mathusias, Francis Everdeli, Charles E.
Burd.

Burd.
Committee on the Admission of Members-Thomas C.
Smith, James H. Drake, John W. Chambers, J. Owen
Rome, Stephen R. Kroin.
Committee on France-Thomas M. Adriance, Thomas
Williams, F., Charles Chamberlain, Simeon Baldwin, J. De Committee on the Library-James K, Campbell, Edw., Walter, Dubols D. Parmelee, Stephenson Towle, Oscar G. Mason.

Walker, Dubols D. Parmolee, Stephenson Towle, Oscar G.
Mason.
Committee on the Repository—M. M. Liviagston, Albro
Howell, Nathaniel Wheeler, Frank A. Butler, C. Williams.
Committee on Naunafactares and Machinery—Haumiton
E. Towle, G. H. Babcock, Robert Weir, Chae, E. Emery,
Frank L. Pope.
Committee on Chemistry, Mineralogy, and Geology.—
Chae, F. Chandler, Dubols D. Parmelee, Julius G. Pohlé,
J. S. Neberry, Albert G. Kelley.
Committee on Optical Science—John E. Gavitt, John
B. Reh, John Frey, L. Bradley, P. H. Vander Weyde.
Committee on Civil Engineering and Architecture—William J. McAlpine, Hamilton E. Towle, Robert G. Hatneld, Samuel McElroy, Edward T. Renwick.
Committee on Agriculture—Nathan C. Fly, P. T. Quinn,
John Crane, T. M. Hexamer, Josiah H. Macy.
Committee on Hortleulture—William S. Carpenter,
John Henderson, Benj. C. Townsend, Isaac Buchanan,
James Hoog.
Committee on Commerce—Thomas Godwin, J. V. C.
Smith, Edmund Dwight, James H. Backett. John H.
Macy.

THE ERIE RAILROAD STRIKE

THE MEN A PREY TO RUMORS—THE AGREEMENT BETWEEN THE MEN AND THE COMPANY. The men out of work at Long Dock had yesterday afternoon, received no news from the delegates whom they sent up the road on Wednesday evening, and, in the absence of authentic intelligence, Rumor is busy, as usual. One of the reports which gained most was "out" From what Mr. Allen stated in Wash said by passengers and brakemen who had come along the line. Mr. Curran, who is attending to about noon, asking for information, but had not re-ceived a reply by the time of the afternoon meeting.

One man said he heard that Mr. Brown had yesterday morning brought over 11 Germans, escorted by a number of police, but that on learning the facts connected with the strike they went back again. Another said he had the strike they went back again. Another said he had heard that Mr. Rucker was hiring all who came along, at the Opera-House, and that he would bring a large multitude over this morning. Thereupon it was proposed to detail a large party to go over to the Opera-House this morning and waten it, and also to detail a force to watch the Chambers-st. ferry on the New-York side. The proposition was received with faver, but was not formally adopted in open meeting, it being thought better to make the arrangement in private. There is not a particle of truth in these rumors. Equally without foundation was the assertion that a party of 200 Germans had got their dinner at the Company's expense in this city, and were about coming over to work; but, on the strength of it, a man asked that some who could speak German be sent with him, and he would put the whole army to flight. One or two new conners, who had been diverted from the shops, complained that they were in distress.

Which ever side won or lost now, would win or lose forever.

The Company is not in the least weakened by the defection of the men. The road never was in better running order. There has been no need to take off a single
ensine. The plan that will be adopted, if needful, is to
send engines lying for repairs at Jersey City over to
Port Jervis, where the work will be done. This explains
the order to increase the number of employes there, as
reported in yesterday's TRIBUNE. To show the
completeness with which the road is equipped, and the
completeness with which the road is equipped, and the
completeness with which the road is equipped, and the
completeness with which the road is equipped, and the
completeness have been placed on the road. Five new men
were taken on at the shops yesterday, and there were it
applicants who said they would commence work this
morning. The men in the tunnel shop did not turn out
yesterday, as the strikers had reported they would.
The following telegram was received yesterday forenoon by Mr. C. W. Tufts, engine dispatcher at Long
Dock:

Suggmanna, Jan. 21, 1870.

To C. W. Terra: All guiet. A meeting was beld as wight, but could

The following is a copy of the agreement, which the men say the Company violated:

OFFICE OF THE GENERAL SUPERINTENDENT BAIR RAILWAY.

This Committee agree to make the pay day the 15th of the month (except Jersey City, which shall be paid, as heretofore, on the 12th), with the understanding, that if anything should happen making it utterly impossible for the Company to be ready, to wait a few days, but not lates than the 25th Jawas P. NDLAY, Buffalo.

JAWAS P. NDLAY, Buffalo.

GRONGE KRAMLEY, Jersey City.

W. COCKAYNE PRITE Suggestanda.

Approved.

THE POLICE COMMISSIONERS.

THE NEW FIRE ALARM TELEGRAPH-ROUNDS

MEN APPOINTED—CAPT. STEERS.

A meeting of the Police Commissioners was held yesterday afternoon. Charles S. Gildersleeve, Secretary of the Board of Fire Commissioners, sent in a communication, requesting that alarm boxes may be placed on the Station-Houses as they would be found useful and convenient in affording facilities for rapid

Patrolman John Burke of the Fetty-second Patrolman John Burke of the Fetty-second was dismissed the Department for being abscne-fromdury without leave.

The following patrolmen were made roundsmen, and transferred to the Precinets named: Michael Fianagan, from Third to Fifteenth Precinct: Christ. Boehme, Eighteenth to Twenty-second: Thomas McParlen, Twenty-first to Twenty-first, Eloss, Michael M. Roomoy, Twenty-first to Twenty-third; Patrick Connolly, Twenty-third to Twenty-third; Patrick Connolly, Twenty-third to Twenty-third; Patrick Connolly, Twenty-third to Twenty-third; Chas. W. Griffith, Twenty-fourth to Twentith; John G. Schultz, Sixth to Fifteenth; Wm. McSally, Sixth to Twentith; Chas. W. Griffith, Twenty-fourth to Twenty-second.

Twelffn; David W. Samneis, Fourteents to Twelty-second.

The statement that Capt, Thomas Steers of the Second Precinct has resigned, is incorrect. His resignation has not been received by the Commissioners, but it is known that he has for some time past contemplated resigning, and only withholds his resignation for a time. He is a worthy officer, and has been for many years on the force. Policie Thals.

At the trials of policemen, yesterday Patrolman Jacob II. Codett of the Forty-third Precinct was charged with drinking, being off post, and using language unbecoming an officer; the case was referred to the full Board. Doerman Redgers and Patrolman Irwin of the Forty-third Precinct will probably be dismissed for lighting in the Station-House. The cases of Patrolman Hendricks of third Precinct will probably be dismissed for fighting in the Station-House. The cases of Patrolinan Hendricks of the Fiftieth. Precinct and Patrolinan McDougail of the Twentieth Precinct charge intoxication, were referred to the full Board. Patrolinen Bell, Taylor, Fniner, and Stags of the Fifth Precinct, charges of failing to prevent the commission of a burglary or to arrest the burglars, were handed over to the care of the full Board, as was also Patrolinan Coy of the Sixteenth Precinct, charged with arresting, releasing, and subsequently threatening to absuit one Michael Lynch of Tenth-ave. s of Patroli

THE COURTS.

SUPREME COURT-CHAMBERS.

SUPREME COURT—CHAMBERS.

Before Mr. Justice Cardozo.—George Francis
Trais art the Union Pacific Raitroad, Eastern Branch.—
This case was transferred to the United States Circuit
Court under the act of 1867, by an order of Judge Ingraham. Subsequently Judge Ingraham granted an order
to show cause why his previous order should not be
vacated, and the case came to on this motion. Inciding
that the case once sent the United States Court,
whether properly or improperly, or rightly or wrongly,
the State courts had entirely lost jurisdiction, and any
errore mistake in that order could only be corrected by
that Court in which the suit actually was. Motion denied. Cark Bell for motion: Charles Burrill opposed.

Arrest of a Defaulting Cashier.—The Merchants' Exchauge National Bank have commenced a civil suit
sgainst their defaulting Cashier, E. J. Onkley, and in it
have had him arrested, and, in default of 180,000, confixed in Ludlow st. Jail.

The Washington Marine Insurance Company Litigation.—In re Petition of Wood.—This is a polition to remove Mr. John B. Haskin from the Receivership of the
Washington Marine Insurance Company, which failed
some eighgent in the collections of the assets, and had
not attended properly to his duties as Receiver. In reply, Mr. Haskin, chained that this proceeding was instituted in the name of Wood by E. R. Meade, counsel for
tion Receiver: that, en taking the Receivership, he had
found lir. Meade employed as counsel, and had continued him, and that whatever negligence there had been
was inste the huit of counsel than his own. The Court
took the papers, reserving its decision.

SUPREME COURT-GENERAL TERM.

Before Ingraham, P. J., Barnard and Brady, J. J.—Purchasing Property for another.—Peter C. Ackerman agt. John M. Ackernan and Jane Ackerman.—The plaintiff but in, several years ago, some property sold by the city at about \$40,000. Being unable to raise the money, his brother John advanced \$4,000, and he being unable to pay all the cash required, Mrs. Ackerman, his wife, stepped in and paid \$6,000, and her husband's advance of \$4,000, and took the trite and, possession of the property, giving in her own name a mortgage to the city for the painnes. She chains that he assigned away all his rights to her. Plaintiff claims that she merely took it for him. The referce found that he was entitled to the property, subject to the lien of her advances, and she appealed, chaining that in decision was contrary to the spirit and purport of the statute of fraude, and that she was weanged in not allowing her interest, and in changing her with cests. The plaintiff replied that the costs was weanged in not allowing her pited that the costs was reproper, she help defeated; the was necessary in such a case.

The Copyright was been minerally, by modifical two far Before Ingraham, P.J., Barnard and Brady, J.

itself from the appeal.

The Court did not think the payment, under the circumstances, a bar to the appeal, and therefore denied the

motion, but directed the main appeal to go over the term, one Judge suggesting that the Legislature would probably settle the question in the meantime. Mr Rapallo for the Company. Mr. O'Gorman for the City.

Court Notice.—Ordered: All applications for orders must be made to the Justice assigned to hold the Chambers except during his absence therefrom when, in cases of emergency to be satisfactorily explained, they may be made to any other Justice, provided, however, that the order applied for shall not conflict with one previously made and existing. And hereafter no motions founded on notice or orders to show cause shall be heard except by the Justice assigned to hold the Chambers unless he shall otherwise request.

Ordered: Applications for a reargument at Special Term must be made to the Justice who heard and decided the motion or proceeding.

A Mistaken Title.—Wm. Proceost, Executor, axt. John S. Proceost, imp/d.—In 1825 Wm. T. Provoest died, leaving a will devising real property to his executors in trust. Under this will his children seemed to think that they were entitled to direct interests to the catate, and under this mistake George Provoest executed a mortgage on his interest to one Charles Carpenter for \$1,600. George becoming insolvent, John L. purchased his interest, and made a new mortgage of it to Carpenter in lieu of the old. The mortgage was foreclosed, but no sale was made under the foreclosure. George Provost died, and, under the decision of the Court, his children held the share in their own right which would have been his had he lived. The present action was commenced in 1865, and Phebe Jane Carpenter as owner of whatever rights there were under this mortgage was made a party. On the trial the Court held that the mortgage passed nothing, but decided that John S. Provoest was liable for the money adjudged in the Toreclosure to be due on it, and directed that this amount be paid out of his share. Mr. Provoest appealed, claiming that the findings did not show that there was any consideration fo

UNITED STATES COMMISSIONERS' OFFICE.

Ignatz Elosky and Adolph Elosky, father and son, and two of the persons charged with being concerned in the coramission of frauds of the Eighteenth-st. distillery, have surrendered themselves before Commissioner Osborn. Ignatz gave \$5,000 ball to appear for examination, but Adolph, who was only 12 years old at the time of the commission of the alleged crime, was discharged on his own recognizance.

"Reddy the Blacksmith."—"Reddy" has settled his case in which he was charged before Commissioner Osborn with non-payment of tax as a retail fluor dealer and billiard-table proprietor at No. 7 Chatham-square, by paying his tax, penalties and costs, amounting to about \$75, and has been discharged.

The Fourth National Bank Case.—The case of William F. Veltman, the clerk of the Fourth National Bank who was charged with defrauding the bank by means of forged checks and false entries, came on for examination before Commissioner Shields yesterday.

Billopp Beaman, cashier of the bank, testified that Veltman had been connected with the bank as collection clerk and bookkeeper about five years; he (witness) had examined the books kept by Veltman for 1868 and 1869; found a false entry made on the 15th of April, 1868, of \$3,060; on the 11th of August, 1869, a false entry of \$1,000; the first entry was to the credit of William Leith; Veltman confessed to having made that false entry. Counsel for Veltman objected to all this evidence, on the ground that Veltman had been induced, by a promise, to make the socalied confession, and that witness's testimony that the entries were false was not legal evidence of their

At the Tombs Police Court, yesterday, fore Justice Dowling, was brought Samuel Taylor of No. 47 Grand-st., for having stolen a case of hoots from the store of Joseph Blanm at No. 50 White-st. He was caught in the act and committed.

In the act and committed.

In the Court of General Sessions, before Judge Bedford, Ellen Rebecca Utt was sentenced to one year in the State Prison, on the charge of causing the death of Patrick O'Conor... Frank Kaiser, charged with burglary, was acquitted... Thomas Lyons, charged with receiving stolen goods, was acquitted by direction of the Court... Joseph Munster plead guilty to an attempt at grand larceny, and was sent to the Penitentiary for one year.

At the Jefferson Market Police Court, before Justice Cox, Charles Hammond, a boot-black, age 14, living in Elizabetiport, was committed for true on a charge of having attempted to steal a quantity of human hair, worth \$250, from the store of Arthur Gentil, No. 815 Broadway, on Thursday. A saleswoman saw Hammond and two others enter the store and stop at the show-case where the hair was kept... Thomas Cunniff, age 19, a butcher, was committed to answer in default of \$2,500 bail for burglariously entering the shoe-store of Christopher Hackett, at No. 400 East Sixteenth-st. Boots and shoes of the value of \$2500 were stolen. An accompilee, James Kearney, was arrested on the night of the burglary, the 11th inst., by Officer Little of the Elighteenth Precinct, and was held to answer...James Gallagher of No. 22 Downing-st. caused the arrest of James Owens, age 18, a butcher, whom he charged with foreing open a door of his dwelling on Wednesday night, and, together with another boy, who has not been arrested, carrying away a gold watch, a clock, and some money, all of the value of \$65. James Broderick, who lives in the same house, saw the two leaving, carrying the bundles with

John Fogle, residing in the Widow Benson's and waited. All attempts to trace an example to the windows proving abortive, the door was resorted to, and in a few seconds swung noiselessly open, when Mr. Fogic raised the hatchet and dealt the disturber of the peace severallevere blows with the bluntedge on the arm. Maddened by the attack he dared Mr. Fogic to go outside, telling him he would "itx" him it he did, when that gentleman again struck him a blow on the check that sent him recling to the floor. Not wishing to kill the rascal, and as he begged pitconsly for his life, he was told to rise, when he threw himself on Mr. Fogic, he was told to rise, when he threw himself on Mr. Fogic, he was told to rise, when he threw himself on Mr. Fogic dealt the fellow such a powerful blow on the head as to knock him prostrate. Again he pleaded for his life, and thinking him too much disabled to do further mischie he was permitted to rise, when he rushed out of the door and through the fence and disappeared in the darkness. He left a felt hat, which may yet lead to his apprehension; and as his woulds were really severe it is surmised that he has not gone far.

SAD ACCIDENT IN NEWARK.

A very sad accident occurred, which resulted n the death of one little boy and the serious injury of two others, at the corner of Clay and Ogdensts., Newark, on Thursday evening. It seems that a little boy 4 years of age, the son of Mr. John Killet, and ittle boy 4 years of age, the son of Mr. John Mulford, were playing around a quantity of timber piled up there, when it suddenly toppied ofer, and several heavy beams fell on the boys. Young Killet was fearfully crashed and disfigured. He died four hours after the accident. The other two children are in a dangerous condition, but they are expected to recover. Mrs. Killet, the mother of the dead boy, is in destitute circumstances, and was a way from home washing at the time of the recover.

THE MIDLAND RAILROAD.

The surveys for the route of the Midland Railroad through Passaic County, N. J., have been finished. The route crosses the Passale River near River-side, passes through the Bocht, crosses York ave., Paterson, north-west of Broadway, runs through the Derrom son, north-west of Broadway, runs through the Derrom property, cuts left the corner of Simonton's lands, Hollows Vreeland-ave, and crosses the Passale laver again near the Market-st. bridge. Thence it runs to Hackensack. It is understood that the Company has obtained a lense of water frontage in the vicinity of the Elysian Fields.

A LETTER FROM CASSIUS M. CLAY. To the Editor of The Tribune.

SIR: I have never been in a habit of reporting my speeches for the press or correcting reports made by others; but, for fear your report of my remarks last night may do injustice to others as well as to myself, I beg the favor to make here a summary of what I did soy. Before entering upon the subject of the night's meeting, I begged to allude to two events of my personal history, which had stood unexplained by me for eight money, its brother John advanced \$4,000, and he being unable to buy at the eash required, airs, Acceptant, his wife, stepped in and paid \$5,000, and her husband's all vacce of \$5,000, and took the title and, possession of the property, giving in her own name a mortgage to the city for the panner. She claims that he assigned away all his rights to her. Plaintiff claims that she can be controlled to the property, siving in her own name a mortgage to the city of the panner. She claims that he assigned away all his rights to her. Plaintiff claims that she can be controlled to the property, subject on the claims that she can be controlled to the property, subject on the claims that she can be controlled to the property, subject on the claims that she can be controlled to the property of the spirit and subject in the claims of the sauth of the spirit and the same than the locates, and that no writing the property by region when the locates, and that no writing the property by regions when the locates, and that no writing the property by regions when the locates, and that no writing the property by regions and the same main erder, but modifies it so far as to give the plaintiff but are mentals as to give the plaintiff but are mentals as a state of the claims of the particle of a street which the property by regions and the same man relieves need that the claim to the same man relieves are the same bear of the claims of the particle of a street which the claim to the same man relieves are as to give the plaintiff but are mentals as a strip of 6 of the value of the particle of a street which the claim to the same more than a street with the same would have to be taken they could be a street of the claim to the same and relieve to the claim to the same and relieve to the same more than the same and relieve to the same more than the same and relieve to read the same and relieve t

with which, in the literest of humanity, he has been obliged be remonstrate against the atrocities and the crocities which have attended the conflict in Cuba for the last year; and, if these cracities and the remonstrative not been conflued which have attended the conflict in Cuba for the last year; and, if these cracities and the litered the present of the president of the present of the president of the removal of the president of the present of the president of the resolutions of the resolutions offered by me. I reviewed the course of France and England inconquest and expansion of empire, the world over-England especially took position on our Pacific Conset; threatened us along the whole of our Northern border; franked us in the Gulf of Mexico; commanded all Gibraitar the Mediterranean Sea; guarded the great highway to the East, by her protego the Viceroy of, Egypt; circumvented us in China, and anticipated us in Japan; planted her standard in strong places of offense and defense the world over, and now uses Spain as an airvanced post, commanding, in military phrase, all our introducents—holding the map of the islants, which would, in our hands, give us, through a ship-casal, the commerce and supremacy in Eastern Asia and Japan and the Pacific isles—and all this was ignored, in order that a few ships and munitipps of was should be sold by our merchants to the Spanish tyrants of Cuba! Well could I sympathize with the indignation of the great Chatham at those who boasted of putting a few miserable pepper-corns into the treasury at the loss of a great empire.

Such is the outline of my argument, which the concerted enemies of Cuban liberty has night attempted to surpress, and upon which I rest the justice and policy of any resolutions, which at last were unanimously adopted. I take occasion more explicitly to remark that I stand by and with the Republican party, but hold that their representatives shall not role but be ruied by the public will, when intelligently and fully made known.

Yours truly,

DEPARTURE OF FOREIGN MAILS.

SATURDAY, Jaw. 22.

Mails for Europe via Southampton and Bremen, per steamship Union, from Hoboken, close at Post-Office at 11:00 a. m. Breamship sails at 2 p. m. A Supplementary Mail for pail detters only, made up on Bremes Pier, and closes at 1 p. m. Mails for Peance via Harre and Brest, per steamship Lafarette, Pier No. 50, N. H., close at the General Post-Office at 7 a. m. No Supplementary Mails.

Captains and pursuit of votatis arriving at this port are equested failers packages addresses the New-York Associated Press endy persons exhibiting the entiren authority of J. W. Simonton. General Agent. News packages for the dourned of Commerce. Times, Tank World, Jan. Express. Ecenting Post, Commercial Adorritors, on Express. Ecenting Post, Commercial Adorritors, on the Agent Posts of Commercial Adorritors, on the Commercial Adorritors, one Property of the Same Posts.

MINIATURE ALMANAC. 11:05 Minor rises. 11:05 Minor r

AttRIVED.
Steamship Hobstis. Enlers. Hamburg Jan. 5, and Havre Jan. 9, mose, and pass.
Steamhip Dariau, Mersina Dec. 24, Falerme 27th, and Gibraltar Jan.
4, froit, &c.

Stark Besie North, Panlaner, Lee Panagra (Spain) Cl days, old Irea rails.

Bark Mary A. Way, Russell, Muscat 69 days, unitse.

Bry Pilgrim, Wright, Algos Bar 65 days, unitse.

Brig L. Waren, Harmani, Catloma il days, unitses.

Schr. P. E. French, Dougett, Washington, S. C., 4 days, naval stores.

Schr. P. E. French, Dougett, Washington, S. C., 4 days, naval stores.

Schr. T. E. French, Dougett, Washington, S. C., 4 days, naval stores.

Schr. E. M. Sawyer, Keiky, Calals, Immber.

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Schr. G. M. Patridge, Hall, Ruckland, imm.

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Bay Moures, Allabethport.

Hamibal, Elfanbethport.

Philadelphia, and

DOMESTIC PONES.

Hannibal, Education Ports.

DOMESTIC PORTS.

Deston, Jan. 21.—Arrived, steamships Saxon, from Philadelphia, and from Kennedy, from Ballimore.

Bort-Mardens' Bolice.

PORT-WARDERS' OFFICE, Na. 23 William-st. FORT-WARDERS OFFICE. As a William of the Control of the Control of the Act passed Andl 14. Iso's cuttled "3.9 Action to of the Act passed Andl 14. Iso's cuttled "3.9 Action theresized,in, of heiring charge of the Sail of New York," to all necessary interestication, or heiring charge of the sailest matter of such inquire, examination or survey, that the following recessing an now audio examination of survey, that the following recessing now and inquire, examination or survey, that the following recessing now audior examinations by the commetted within ton cars and that the sail surveys or examinations with the commetted within ton cars and succeeding this notice, on beard said.

NOTICE TO MARINERS.—TEARAGHT ISLAND LIGHTROURS, SOUTH WAST COAST OF IRELAND. OPPICE OF THIS LIGHT BOURS, SOUTH WAST COAST OF IRELAND. OPPICE OF THIS LIGHT POWER IS HEREBY GIVEN that a LIGHTEOUSE has been exceed NOTICE REPORTING HEREBY GIVEN that a LIGHTEOUSE has been exceed Kerry, in Lat, 85° 4' 30" S. and Long, 10° 50' W. Y. from which a WHITE REVOLVING LIGHT will be exhibited on the evening of the Its Her. 1970, and coordinate the confect from anneat to scarrie.

The Light will be a First Order Holophotal, baying to focal plans 170 feet above the loves of this sea at high water Syring tides. It will stake the property of the sea of the evening to the late of the evening tides of the late of the by N. F. N. am should be seen in clear weather from a distance of 22 Noutcest Miles.

The Tweer's is Circular, of a Whilsh Cray Color, and is 57 feet in higher from base to wans.

On the same evening Longhead hight will be changed from Fixed to

The Twent is Created.

The Twent is the Value of the State of the Stat

LOOTHEAD AND Santature Loars, Dructs, Jan. 1, 1879.

Notice is basely given, that the Light now exhibited at the Loophead Lighthouse will, caught Evening of the lat of May, 1879, be chassed from a First to an offernittent Light, showing bright for P seconds.

Nom the same date, the Shelling Upon Light will cease to be examined, and the Reveiring Light on Tesrachs (the westerment of the Black of Lalands) concession oversion. By order, WM. LEES, Secretary.

SHIPPING INTELLIGENCE. PORT OF NEW-TORK Jamary 2).

fruit, K.C. Steamship Wm. P. Civde, Morgan, Wilmington, N.C., naval stores. Steamship Brunette, Foeman, Philadelphot, mdes. Steamship James After, Local wood, Charleston, unless and none. Bark Bessle, North, Panissor, Loc. Paneages (Spain) 42 days, old Iran. Bark Bessle, North, Panissor, Loc. Paneages (Spain) 42 days, old Iran.